

IN THE CLAIMS**RECEIVED
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1-28. (CANCELED)

29. (PREVIOUSLY PRESENTED) A flexible, continuous abrasive sheet web comprising a flexible polymeric sheet or flexible metal backing web sheet having an full web width array of raised abrasive structures, the abrasive structures comprising islands of a first structural material having a raised flat top surface, the top surface having at least a monolayer of abrasive particles or abrasive agglomerates supported in a polymeric resin, wherein the heights of all islands measured from the raised flat top surface of the abrasive coated islands to an island-side flat surface of the web backing sheet have a standard deviation in abrasive particle coated islands height of less than 0.01 mm.

30. (ORIGINAL) The abrasive web of claim 29 where the full web width array of islands is made up of circular island shapes.

31. (ORIGINAL) The flexible abrasive web of claim 29 wherein the island structures are top coated with a monolayer of diamonds or other hard abrasive particles or abrasive agglomerates at least 7 up to 400 micrometers in average particle diameter.

32. (ORIGINAL) The flexible abrasive web of claim 29 wherein the island structures are top coated with a slurry mixture comprising abrasive particles or abrasive agglomerates and a polymer resin.

33. (ORIGINAL) The flexible abrasive web of claim 29 wherein the raised island structure material comprises a particle filled polymer resin or a non-particle filled polymer resin.

34. (ORIGINAL) The island structures of claim 33 wherein the island material flat top surface is formed by mold plates or the surface is formed by mold rolls or the surface is machined or the surface is abrasively ground to a precise raised island structure total web thickness wherein the web thickness is measured from the flat top surface of the non-abrasive coated island material structure to the bottom support surface of the web backing sheet.

35. (ORIGINAL) A process of applying a resin coating to form the at least monolayer of the abrasive web of claim 29 wherein top exposed surfaces of the island foundation structures are precision thickness polymeric resin coated by a web sheet transfer coating process where a liquid-state resin coated transfer web sheet is pressed into conformation in uniform contact with the nominally flat top surfaces of the full web width array of raised islands until the resin wets the full top surface area of each island, after which wetting the coated transfer web sheet is removed, leaving at least 5% of the resin within the island areas of contact attached as a uniform layer on the island top surfaces, after which abrasive particles or abrasive agglomerates are deposited onto the wet resin coated islands wherein the particles or agglomerates are supported in the polymeric resin.

36. (ORIGINAL) A process of applying a resin coating to form the at least monolayer of the abrasive web of claim 29 wherein top exposed surfaces of the island foundation structures are precision thickness abrasive slurry resin mixture coated by a web sheet transfer coating process where a liquid-state abrasive resin slurry mixture coated transfer web sheet, the slurry mixture comprising abrasive particles or abrasive agglomerates and a polymer resin, is pressed into conformation in uniform contact with the nominally flat top surfaces of the full web width array of raised islands until the slurry mixture wets the full top surface area of each island, after which wetting the coated transfer web sheet is removed, leaving at least 5% of the abrasive slurry mixture within the island areas of contact attached as a uniform layer on the island top surfaces.

37. (ORIGINAL) A flexible, continuous abrasive sheet web comprising a flexible polymeric sheet or flexible metal backing web sheet having an full web width array of raised abrasive structures, the abrasive structures comprising islands of a first structural material having a raised flat top surface, the top surface having at least a monolayer of abrasive particles or abrasive agglomerates supported in a polymeric resin, wherein the total web thickness of all islands measured from the flat top surface of the abrasive coated islands to an upper surface of the bottom support surface of the backing sheet has a standard deviation in abrasive particle coated islands thickness of less than 0.03 mm.

38. (ORIGINAL) The abrasive web of claim 37 where the full web width array of islands is made up of circular island shapes.
39. (ORIGINAL) The flexible abrasive web of claim 37 wherein the island structures are top coated with a monolayer of diamonds or other hard abrasive particles or abrasive agglomerates at least 7 up to 400 micrometers in average particle diameter.
40. (ORIGINAL) The flexible abrasive web of claim 37 wherein the island structures are top coated with a slurry mixture comprising abrasive particles or abrasive agglomerates and a polymer resin.
41. (ORIGINAL) The flexible abrasive web of claim 37 wherein the raised island structure material comprises a particle filled polymer resin or a non-particle filled polymer resin.
42. (ORIGINAL) The island structures of claim 41 wherein the island material flat top surface is formed by mold plates or the surface is formed by mold rolls or the surface is machined or the surface is abrasively ground to a precise raised island structure total web thickness wherein the web thickness is measured from the flat top surface of the non-abrasive coated island material structure to the bottom support surface of the web backing sheet.
43. (ORIGINAL) A process of applying resin coating to form the at least monolayer of the abrasive web of claim 37 wherein top exposed surfaces of the island foundation structures are precision thickness polymeric resin coated by a web sheet transfer coating process where a liquid-state resin coated transfer web sheet is pressed into conformation in uniform contact with the nominally flat top surfaces of the full web width array of raised islands until the resin wets the full top surface area of each island, after which wetting the coated transfer web sheet is removed, leaving at least 5% of the resin within the island areas of contact attached as a uniform layer on the island top surfaces, after which abrasive particles or abrasive agglomerates are deposited onto the wet resin coated islands wherein the particles or agglomerates are supported in the polymeric resin .

44. (ORIGINAL) A process of applying abrasive slurry to form the at least monolayer coating the abrasive web of claim 37 wherein top exposed surfaces of the island foundation structures are precision thickness abrasive slurry resin mixture coated by a web sheet transfer coating process where a liquid-state abrasive resin slurry mixture coated transfer web sheet, the slurry mixture comprising abrasive particles or abrasive agglomerates and a polymer resin, is pressed into conformation in uniform contact with the nominally flat top surfaces of the full web width array of raised islands until the slurry mixture wets the full top surface area of each island, after which wetting the coated transfer web sheet is removed, leaving at least 5% of the abrasive slurry mixture within the island areas of contact attached as a uniform layer on the island top surfaces.

45. (ORIGINAL) A flexible, continuous abrasive sheet web comprising a flexible polymeric sheet or flexible metal backing web sheet having an full web width array of raised abrasive structures, the abrasive structures comprising islands of a first structural material having a raised flat top surface, the flat top surface having at least a monolayer of abrasive particles or abrasive agglomerates supported in a polymeric resin, where the total thickness of all islands measured from the flat top surface of the abrasive coated islands to the bottom support surface of the backing sheet has a standard deviation in abrasive particle coated islands thickness of less than 80% of the average diameter of the abrasive particles or abrasive agglomerates.

46. (ORIGINAL) The abrasive web of claim 45 where the full web width array of islands is made up of circular island shapes.

47. (ORIGINAL) The flexible abrasive web of claim 45 wherein the island structures are top coated with a monolayer of diamonds or other hard abrasive particles or abrasive agglomerates at least 7 up to 400 micrometers in average particle diameter.

48. (ORIGINAL) The flexible abrasive web of claim 45 wherein the island structures are top coated with a slurry mixture comprising abrasive particles or abrasive agglomerates and a polymer resin.

49. (ORIGINAL) The flexible abrasive web of claim 45 wherein the raised island structure material comprises a particle filled polymer resin or a non-particle filled polymer resin.

50. (ORIGINAL) The island structures of claim 49 wherein the island material flat top surface is formed by mold plates or the surface is formed by mold rolls or the surface is machined or the surface is abrasively ground to a precise raised island structure total web thickness wherein the web thickness is measured from the flat top surface of the non-abrasive coated island material structure to the bottom support surface of the web backing sheet.

51. (ORIGINAL) A process of applying resin to form the at least monolayer coating of the abrasive web of claim 45 wherein top exposed surfaces of the island foundation structures are precision thickness polymeric resin coated by a web sheet transfer coating process where a liquid-state resin coated transfer web sheet is pressed into conformation in uniform contact with the nominally flat top surfaces of the full web width array of raised islands until the resin wets the full top surface area of each island, after which wetting the coated transfer web sheet is removed, leaving at least 5% of the resin within the island areas of contact attached as a uniform layer on the island top surfaces, after which abrasive particles or abrasive agglomerates are deposited onto the wet resin coated islands wherein the particles or agglomerates are supported in the polymeric resin.

52. (ORIGINAL) A process of applying abrasive slurry to form the at least monolayer coating of the abrasive web of claim 45 wherein top exposed surfaces of the island foundation structures are precision thickness abrasive slurry resin mixture coated by a web sheet transfer coating process where a liquid-state abrasive resin slurry mixture coated transfer web sheet, the slurry mixture comprising abrasive particles or abrasive agglomerates and a polymer resin, is pressed into conformation in uniform contact with the nominally flat top surfaces of the full web width array of raised islands until the slurry mixture wets the full top surface area of each

island, after which wetting the coated transfer web sheet is removed, leaving at least 5% of the abrasive slurry mixture within the island areas of contact attached as a uniform layer on the island top surfaces.

53. (ORIGINAL) The flexible abrasive web of claim 45 wherein the continuous web is shape-cut to form circular abrasive disks.

54. (ORIGINAL) The flexible abrasive web of claim 45 wherein the continuous web is shape-cut to form rectangular abrasive sheets.

55-74. (CANCELED)